

# Solving water through IoT - How Avenor empowers wastewater operation

An aerial photograph of a river delta system. The central channel is a wide, dark blue-green waterway that branches out into a complex network of smaller, lighter-colored distributaries. The overall pattern is fan-shaped, with the water spreading out as it moves from the top center towards the bottom. The colors range from deep teal to light, almost white, sandy or silty water.

[Link to video](#)

# Flygt, over 120 years of innovation



**1901**

Foundry  
Established in  
Emmaboda,  
Sweden.



**1956**

Creation of the first-ever  
submersible wastewater pump.



**1997**

Introduction of the first N-pump with a  
unique self-cleaning impeller.



**2016**

The world's first wastewater pumping  
system with integrated intelligence.

# Where does IoT come into play?

The water cycle is dependent on:

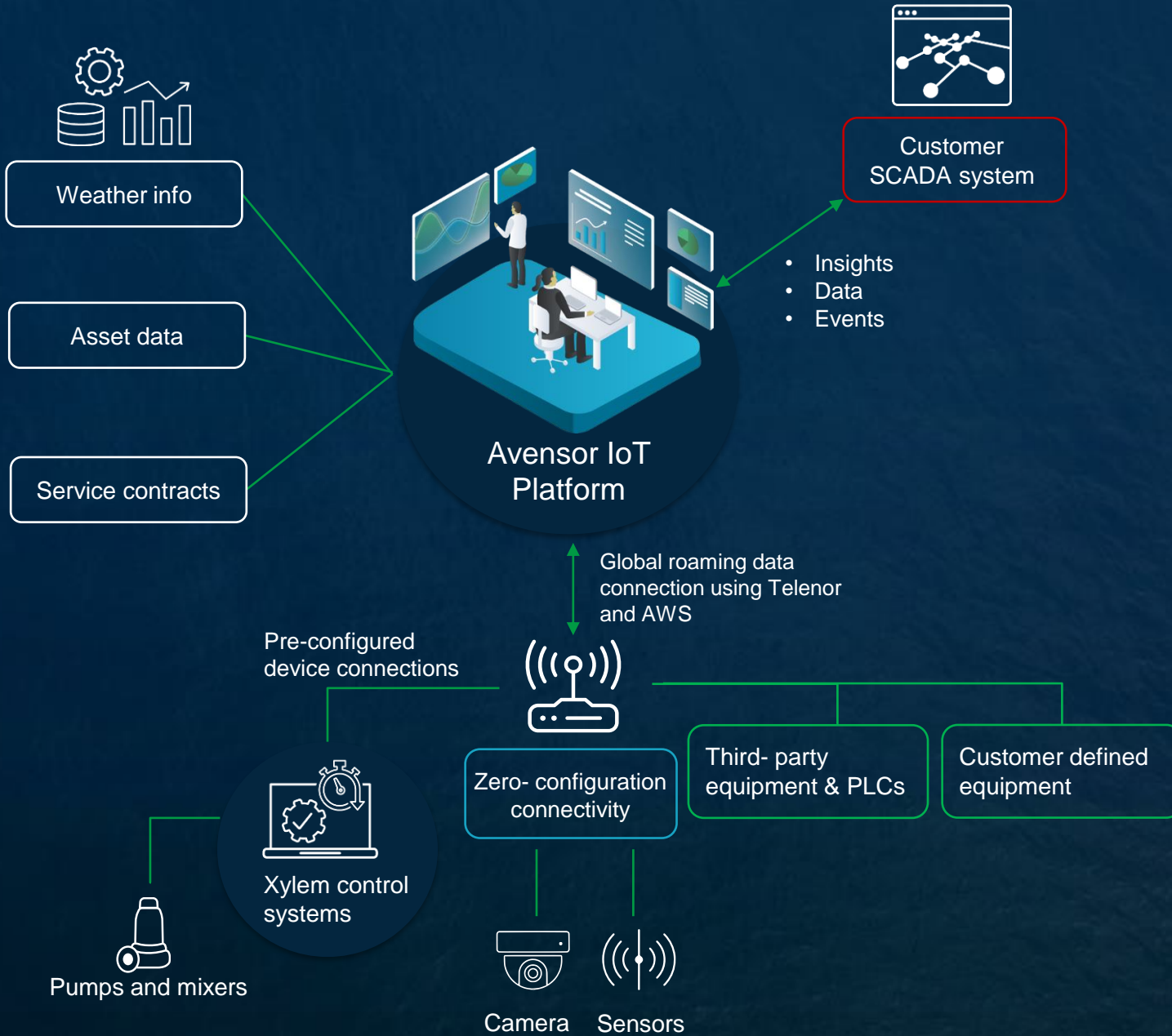
- Distributed critical assets
- Various different actors

All part of the same system



This is what a normal wastewater pump station looks like





# Xylem Avensor

Avensor is a digital service providing unique simplicity in achieving data and insights for water assets. This helps operators achieve more with less by data led operations.

# From Manual Inspections On-site

# To Remote Visual Inspections



**50%** Reduction in onsite visits

Two field technicians



One service car



2 hours per station



One station at a time



One remote technician



Remote inspection



10 minutes per station



Unlimited amount of stations

- OVERVIEW
- ALARMS
- ANOMALIES
- ANALYTICS
- LIVE DATA
- REMOTE CONTROL
- INSPECTIONS
- NOTES
- DEVICES
- STATION MODEL
- CAMERA
- SETTINGS

**BRF Banér GW PST**  
Banérgatan 71-73, 11553, Stockholm, Sweden

**Installed** Connectivity  
**No active anomalies** Anomalies  
**No active alarms** Alarms

**Water level** [Live data](#)

High 0.8 m

Lag start 0.6 m

Start 0.42 m

**Stop 0.14 m** **Water level 0.25 m**

**Pump 1**  
FGC421

**Auto Mode**

0 Starts - Today      0s Run time - Today

**Pump 2**  
FGC421

**Auto Mode**

0 Starts - Today      0s Run time - Today

**Map**  
Location

Report a map error

**Weather**  
Precipitation data

Current conditions **Monday 16 Oct**  
**0mm**

Volkam (mm)	M	T	W	T	F
	0%	99%	48%	22%	15%

[Send on data from MET Norway](#)

**Connectivity state** [View all](#)  
Online: 3 | Offline: 0

- CCD** CCD 401 **Online**
- BRF Banér Camera 1** Camera **Installed**
- FGC421** FGC 401/421 **Installed**

**BRF Banér Camera 1** [View camera](#)  
Oct 6, 2023 13:39:55

**Station model** [View model](#)



# Case study: Port of Trelleborg



[Link to video](#)